

## **WAYS TO HAVE iDEVICE INTERACT WITH THE SMARTBoard**

### **Option #1:**

- The iPad comes equipped with potential to video mirror. What this means is that with a Digital AV Adapter or Lightning Digital AV adapter (follow this link to determine what adapter you require [Link](#) depending on model of iPad) and HDMI cable you can project what is on your iPad up to the SMART Board. It merely allows projection of the iPad screen and shows interaction on the iPad but other students can't interact with the iPad but touching icons on the image of the iPad on the SMART Board. For more information please see Video mirroring on:

1) Apple website: <http://support.apple.com/kb/HT4108>

2) Video from You Tube – where they say TV monitor you think SMART Board projector to SMART Board <http://www.youtube.com/watch?v=R1vhwpnyYgg>



### **OPTION 2: Best Yet: Airplay Mirroring to a MAC /PC with no Apple TV required**



### **[Air Server for both MAC and PC](#)**

AirServer is a powerful Mac/PC application that enables you to stream or mirror your iOS device, such as your iPhone or iPad2, iPad Mini to your Mac/PC. If your computer is connected to a secondary or alternative display, such as an HDTV or

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Alexandra Dunn ([alexduddn@smartinclusion.ca](mailto:alexduddn@smartinclusion.ca) [smartinclusion.wikispaces.com](http://smartinclusion.wikispaces.com) )

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projector, your iOS device can use that display. If your iOS device allows Mirroring then anything you see on that device can be displayed on the big screen. AirServer is the most advanced AirPlay/AirTunes receiver app on the market. Mirroring has been fully supported since version 4.0 of AirServer. No other app will let you seamlessly stream audio, videos, photos, and photo slideshows to your Mac or iOS device. AirServer gives you more features for less money, and it keeps getting better. Android fans rejoice: we now support AirPlay streaming to Mac from Android devices running doubleTwist+AirTwist.

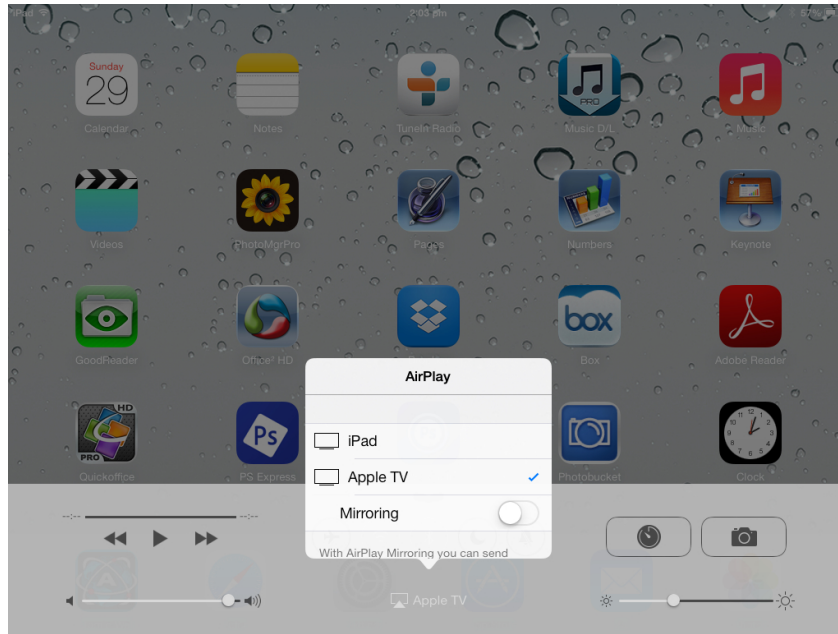


### **Reflector App (formerly Reflection App)**

From Tony Vincent's Blog, [Learning in Hand](#), March 1, 2012

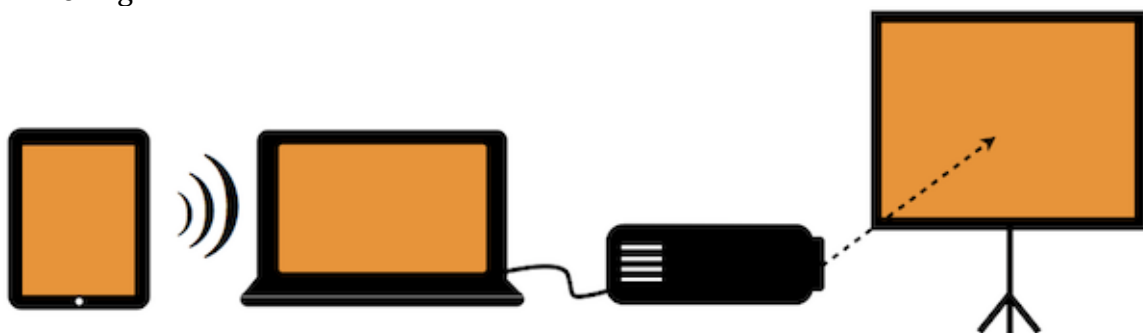
A Mac and PC app has been released [Reflector](#) that turns your Mac/PC into an AirPlay receiver. AirPlay is what Apple uses to send and receive the video and sound from an iPad or iPhone to Apple TV. With the Reflector app, there is no software to install on the device since AirPlay is built in iOS devices and no Apple TV required. Reflector literally takes less than two minutes to setup. Here are the directions provided by on Reflector App's website:

*Download the Reflector app and copy it to your Applications folder. In the iOS 6 days, you could get to AirPlay Mirroring by double-tapping the Home button, then swiping right as far as you could go, into the Music player controls where you'd see the AirPlay icon. With a tap on that icon, you could turn on mirroring. We've had pings from more than just a few readers who wonder where that capability has gone in [iOS 7](#), so here's the simple solution: it's part of [Control Center](#), which you reach by swiping up from the bottom edge of your screen. Just look for the AirPlay icon. Tap this and select your Mac from the list. Last, toggle the "Mirror" switch...voila!*



Mirroring is great for modeling device use by the teacher. This is what I end up doing lots during my workshops. A live demo is much more effective than static screenshots. With Reflector and AirPlay, I'm not tethered to the front of the room using my iPad. I can move around with iPad and even hand it off to others while everyone else can see its screen live on the projector's screen.

Student devices can be mirrored as well. A student can activate mirroring from his device to the Mac running Reflector to instantly share ideas and their work. A student might have a graph made in Doodle Buddy to show the class. Mirror it! Another student might have made a book trailer with PuppetPals HD and wants to play it for the class. Mirror it! Groups of students made ShowMe screencasts to teach the rest of the class how to reduce fractions. There's nothing stopping them from mirroring!



Reflector is also great for making screencasts of what you see on iPad or iPhone's screen. You can use [fancy](#) or [free](#) software to record what's on the Mac's screen. However, the easiest way may be using QuickTime, which is on every Mac. [Read how to record your screen with QuickTime](#). I foresee lots of tutorials and app reviews being made this way.

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Alexandra Dunn (alexduddn@smartinclusion.ca smartinclusion.wikispaces.com )

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How about another use for [Reflector](#)? Teachers can monitor what students are doing on their devices. At least three devices can be mirrored simultaneously to one Mac. I don't know the limit because I only had three devices to test at the time. Each device that mirrors shrinks the others on the Mac's screen. So even if you could mirror a whole class set, the screens would be far too small to view. But, certain students who might be on iPad "probation" may be required to mirror to the teacher's computer for monitoring. The teacher's computer wouldn't be projecting--it would just be for the teacher to oversee what's happening on the device.



One more idea for you: With Reflector and Airplay, you can turn an iPad or iPhone into a wireless document camera. Simply launch the Camera app on the device and what's seen by the camera is seen on your computer screen and projector. You can prop iPad off a box or crate or [buy](#) or [make](#) some contraption and point it at a book, student art, magazine picture, science experiment--anything that shows up on the camera can be projected for an audience.

## [X-Mirage](#)

One more mirroring option is X-Mirage. You can download and try for [X-Mirage](#) for free. The software runs on your computer and allows devices to mirror iPad to the computer screen. When the computer is connected to a projector and/or to an interactive whiteboard, then the iPad shows on the projector or the whiteboard screen.

Alexandra Dunn ([alexduddn@smartinclusion.ca](mailto:alexduddn@smartinclusion.ca) [smartinclusion.wikispaces.com](http://smartinclusion.wikispaces.com) )

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### **Option #3:**

- Some Apps will allow you to operate and manipulate your SMART Board content from your iPad
- Some examples of Apps include the following but this is not an exhaustive list:

Splashtop Whiteboard, which turns your iPad into a portable interactive whiteboard



<http://www.youtube.com/watch?v=TKNJwAL8cG8>

Remote Mouse- turns your iPad into a wireless mouse



SMART Bridgit – It should be noted that although the Bridgit App is free the Bridgit Conferencing software needed to connect the iPad and the SMART Board is not.



<http://www.youtube.com/watch?v=GZhRNy7UNX4&list=UUWUitrNZZF2T00UTWJ-jlhA&index=1&feature=plcp>

### **OPTION #4**

Alexandra Dunn (alexduinn@martinclusion.ca martinclusion.wikispaces.com )

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-You can put the iPad under a Document Camera. This will simply allow you to project an image of what is on the iPad screen. It should be noted that glare could sometimes be a factor.



Document Camera Video <http://www.youtube.com/watch?v=mVlo1OhPi68>

Mixed Reality Document Camera Video

<http://www.youtube.com/watch?v=2M6mX-blFil>

### **OPTION #5:**

-Thanks to @mathwhiz on Twitter for the idea of using Camera and Dropbox on the iPad



“There is a piece of technology that I do not have...A Scanner! Nor do I have an Elmo, so getting student work examples on the board can be quite challenging! However, the iPad 2 has definitely been a lifesaver in my classroom. I love love love [Dropbox.com](http://Dropbox.com) and the Dropbox app has been wonderful for getting snippets of work onto my SMART board for a little interactive makeover. This is especially useful when students are working on special projects and we need to quickly share. We just grab the iPad, take a picture and upload via the Dropbox app. In a matter of

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minutes, whatever problem students are working on is instantly on the board. It's been a pretty great timesaver!!"

### **Option #6: Apple TV**

From Sasha Zekulin "You can use Apple TV to mirror, and what I love about that option is that the iPad is now wireless & you don't have to be tied to your projector with a cable. As with all Apple products, usually the newest, coolest feature means having the newest operating system (i.e., sync those bad-boys with you iTunes for your free update, if you haven't synced since November). Here's the instructional Apple TV video:



<http://www.youtube.com/watch?v=H6ErfZ26DGs&list=UUWUitrNZZF2TO0UTWJ-JlhA&index=2&feature=plcp>